String characters balance Test

Write a program to check if two strings are balanced. For example, strings s1 and s2 are balanced if all the characters in the s1 are present in s2. The character's position doesn't matter. If balanced display as "true" ,otherwise "false".

For example:

Input	Result
Yn PYnative	True

Program:

```
a=input()
b=input()
if a in b or b in a:
   print("True")
else:
   print("False")
```

	Input	Expected	Got	
~	Yn PYnative	True	True	~
~	Ynf PYnative	False	False	~

Decompress the String

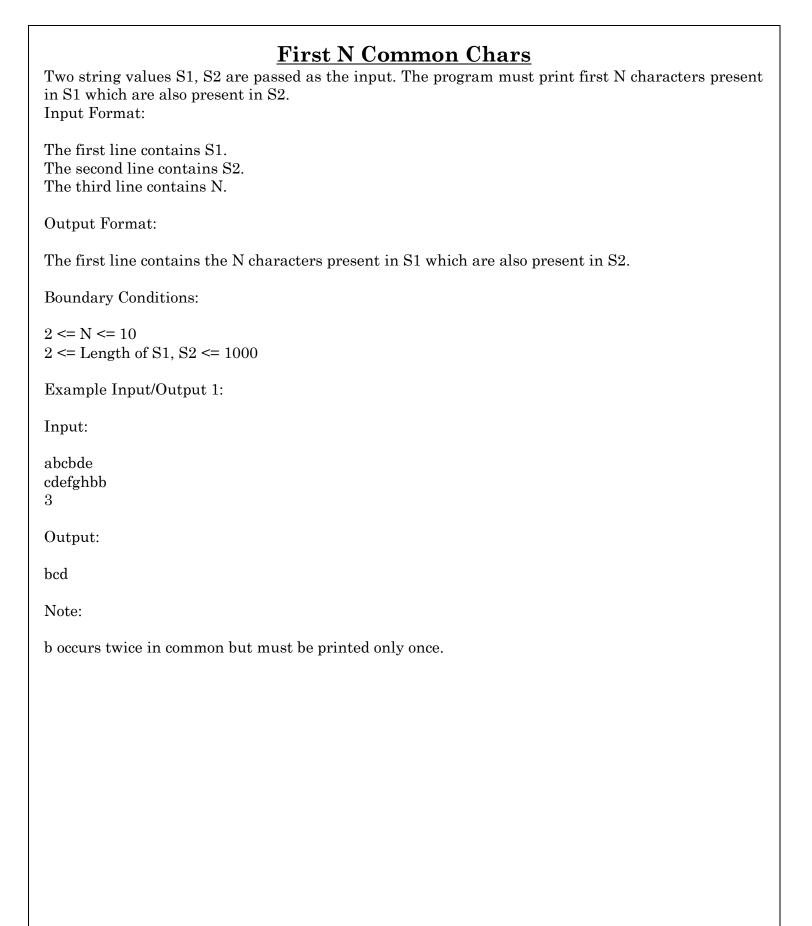
Assume that the given string has enough memory. Don't use any extra space (IN-PLACE) Sample Input 1 $\rm a2b4c6$

Sample Output 1 aabbbbcccccc

Program:

```
s=input()
r=""
i=0
while i< len(s):
    char=s[i]
    i+=1
    num=""
    while i<len(s) and s[i].isdigit():
        num+=s[i]
        i+=1
    r+=char*int(num)
print(r)</pre>
```

	Input	Expected	Got	
~	a2b4c6	aabbbbccccc	aabbbbccccc	~
~	a12b3d4	aaaaaaaaaabbbdddd	aaaaaaaaaabbbdddd	~



```
Program:

a=input()

b=input()

n=int(input())

bset=set(b)

cc=[]

c=0

for i in a:

if i in bset and i not in cc:

cc.append(i)

c=c+1

if(c==n):

break

s=".join(cc)

print(s)
```

	Input	Expected	Got	
~	abcbde cdefghbb 3	bcd	bcd	~

Username Domain Extension

Given a string S which is of the format USERNAME@DOMAIN.EXTENSION, the program must print the EXTENSION, DOMAIN, USERNAME in the reverse order.

Input Format:

The first line contains S.

Output Format:

The first line contains EXTENSION. The second line contains DOMAIN. The third line contains USERNAME.

Boundary Condition:

1 <= Length of S <= 100

Example Input/Output 1:

Input:

vijayakumar.r@rajalakshmi.edu.in

Output:

edu.in rajalakshmi vijayakumar.r

Program:

s=input()
at=s.index('@')
dot=s.index('.')
username=s[:at]
domain=s[at+1:dot]
exten=s[dot+1:]
print(exten)
print(domain)
print(username)

	Input	Expected	Got	
~	abcd@gmail.com	com gmail abcd	com gmail abcd	~

Count Chars

Write a python program to count all letters, digits, and special symbols respectively from a given string **For example:**

Input	Result
rec@123	3 3 1

Program:

```
x=input()
a,b,c=0,0,0
for i in x:
    if(i.isalpha()):
        a+=1
    elif(i.isalnum()):
        b+=1
    else:
        c+=1
print(a,b,c,sep="\n")
```

Input	Expected	Got	
rec@123	3	3	~
	3	3	
	1	1	
P@#yn26at^&i5ve	8	8	~
	3	3	
	4	4	
abc@12&	3	3	~
	2	2	
	2	2	
	rec@123 P@#yn26at^&i5ve	rec@123 3 3 1 1 P@#yn26at^&i5ve 8 3 4 4 abc@12& 3 2	rec@123 3 3 3 3 1 1 1 1 P@#yn26at^&i5ve 8 8 3 4 4 4 4 abc@12& 3 2 2

Reverse String

Reverse a string without affecting special characters. Given a string S, containing special characters and all the alphabets, reverse the string without affecting the positions of the special characters. Input:

```
A&B
```

Output:

B&A

Explanation: As we ignore '&' and

As we ignore '&' and then reverse, so answer is "B&A".

For example:

```
Input Result
```

A&x# x&A#

Program:

```
s=input()
```

1=[]

for i in s:

if(i.isalpha()):

l.append(i)

1.reverse()

r="

index=0

for i in s:

if(i.isalpha()):

r+=1[index]

index+=1

else:

r+=i

print(r)

	Input	Expected	Got	
~	A&B	В&А	В&А	~

Longest Word

Write a python to read a sentence and print its longest word and its length

For example:

Input	Result
This is a sample text to test	sample 6

Program:

```
sen=input()
words=sen.split()
l=""
maxi=0
for word in words:
  if(len(word)>maxi):
    l=word
    maxi=len(word)
```

print(l,maxi,sep="\n")

	Input	Expected	Got	
•	This is a sample text to test	sample	sample 6	*
•	Rajalakshmi Engineering College, approved by AICTE	Rajalakshmi 11	Rajalakshmi 11	~
`	Cse IT CSBS MCT	CSBS 4	CSBS 4	~

Remove Palindrome Words

String should contain only the words are not palindrome.

```
Sample Input 1
Malayalam is my mother tongue
```

Sample Output 1 is my mother tongue

Program:

```
s=input()
words=s.split()
x="
for word in words:
  word=word.lower()
  if (word!=word[::-1]):
    print(word,end=" ")
```

	Input	Expected	Got	
~	Malayalam is my mother tongue	is my mother tongue	is my mother tongue	~

Remove Characters

Given two Strings s1 and s2, remove all the characters from s1 which is present in s2.

Constraints 1<= string length <= 200

Sample Input 1 experience enc Sample Output 1 xpri

Program:

s1=input()
s2=input()
x=".join(char for char in s1 if char not in s2)
print(x)

	Input	Expected	Got	
~	experience enc	xpri	xpri	~

Unique Names

In this exercise, you will create a program that reads words from the user until the user enters a blank line. After the user enters a blank line your program should display each word entered by the user exactly once. The words should be displayed in the same order that they were first entered. For example, if the user enters:

Input:

first second first third

second

then your program should display:

Output:

first second third

Program:

```
l=[]
while(True):
    a=input()
    if a!=" ":
        l.append(a)
    else:
        break
l=dict.fromkeys(l)
for i in l:
    print(i)
```

	Input	Expected	Got	
~	first second first third second	first second third	first second third	~
~	rec cse it rec cse	rec cse it	rec cse it	~